

### ABSTRACT

The present invention provides a flip-flop diagonal with variable viewing angles. It comprises a housing body, an eyepiece adapter unit and a reflective mirror unit. The housing body has a cylindrical sleeve for mounting the diagonal to a telescope. The eyepiece adapter unit includes an eyepiece adapter and an eyepiece support frame, the eyepiece adapter is fixed on the eyepiece support frame, the eyepiece support frame is pivotally mounted on the housing body. The reflective mirror unit includes a reflective mirror, a mirror support bracket and rotary shafts, the reflective mirror is mounted in the mirror support bracket, and the mirror support bracket is pivotally mounted on the eyepiece support frame through the rotary shafts. With the flip-flop diagonal according to the present invention, when observing the sky through the refracting astronomical telescope, wherever the target is, the eyepiece can be located in different positions only by changing the angles of the eyepiece adapter. Therefore, the number of the telescope accessories can be reduced, and, on the other hand, the observation is more convenient.